

Form PTO-1449  
(REV. 7-80)

69861

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
GP-100.C1SERIAL NO.  
08/860,844

**INFORMATION DISCLOSURE STATEMENT**  
(Use several sheets if necessary)

APPLICANT(S): Susan Weininger, Authur M. Weininger

FILING DATE  
June 9, 1997GROUP  
1655

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AM	AA	4	5	5	6	6	4	3	12/3/85	Paau et al.	436	501	
AM	AB	4	6	8	3	1	9	5	7/28/87	Mullis et al.	435	6	
AM	AC	4	7	7	5	6	1	9	10/4/88	Urdea	435	6	
AM	AD	4	7	9	4	0	7	5	12/27/88	Ford et al.	435	6	
AM	AE	4	8	6	8	1	0	5	9/19/89	Urdea et al.	435	6	
AM	AF	4	9	6	0	6	9	1	10/2/90	Gordon et al.	435	6	
AM	AG	5	0	9	6	8	1	5	3/17/92	Ladner et al.	435	69.1	
AM	AH	5	1	1	6	6	0	5	6/2/92	Urdea	435	6	
AM	AI	5	1	2	2	6	0	0	6/16/92	Kawaguchi et al.	536	27	
AM	AJ	5	1	2	4	2	4	6	6/23/92	Urdea et al.	435	6	
AM	AK	5	1	9	8	3	4	6	3/30/93	Ladner et al.	435	69.1	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
AM	AL	8	8	0	6	6	0	1	9/7/88	PCT				
AM	AM	9	4	1	7	0	8	7	8/4/94	PCT				
AM	AN	0	4	5	3	3	0	1	10/23/91	EPO				
AM	AO	9	3	2	0	2	3	3	10/14/93	PCT				
AM	AP	9	3	1	5	2	2	6	8/5/93	PCT				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AR		Keller, G.H., M.M. Manak (1989) DNA Probes, Stockton Press, pages v-xiii, 192-210, 215-230.										
AM	AS		Ptashne, M., A.D. Johnson, C.O. Pabo (1982) "A Genetic Switch in a Bacterial Virus" Scientific American 247(5):128-140.										
AM	AT		Ghosh, S. et al. (1990) "Cloning of the p50 DNA Binding Subunit of NF-KB: Homology to re/ and dorsal" Cell 62:1019-1029.										

EXAMINER

Adi Mansley

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AM	AA	5	2	0	0	3	1	4	4/6/93	Urdea	435	6	
AM	AB	5	2	1	5	8	8	2	6/1/93	Bahl et al.	435	6	
AM	AC	5	2	1	5	8	9	9	6/1/93	Dattagupta	435	6	
AM	AD	5	2	9	0	6	7	7	3/1/94	Robertson et al.	435	5	
AM	AE	5	3	0	6	6	1	4	4/26/94	Alizon et al.	435	5	
AM	AF	5	3	0	6	6	1	9	4/26/94	Edwards et al.	435	6	
AM	AG	5	3	1	0	6	5	0	5/10/94	McMahon et al.	435	6	
AM	AH	5	3	2	4	8	2	9	6/28/94	Bahl et al.	536	23,1	
AM	AI	4	8	8	2	2	6	9	11/21/89	Schneider et al.	435	6	
AM	AJ	4	7	5	1	1	7	7	6/14/88	Stabinsky	435	6	
AM	AK	4	9	4	8	8	8	2	8/14/90	Ruth	536	27	

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AM	AN	0	3	5	7	3	3	6	3/7/90	EPO				
AM	AO	0	1	4	6	0	3	9	6/26/85	EPO				
AM	AP	0	4	5	0	5	9	4	10/9/91	EPO				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AR		Baldwin, A.S. Jr. et al. (1991) "Induction of NF- $\kappa$ B DNA-Binding Activity during the G <sub>0</sub> -to-G <sub>1</sub> Transition in Mouse Fibroblasts" Molecular and Cellular Biology 11(10):4943-4951.										
AM	AS		Rosin, H. (1994) "Bad Blood" in The New Republic, June 27, page 12.										
AM	AT		Taylor, I. (1994) "Johnson & Johnson leads race for over-the-counter HIV test" Newark Star Ledger, July 24.										

EXAMINER

John Maschke

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<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>												
<b>AM</b>	AF	Haugen, T.H. <i>et al.</i> (1987) "Trans-activation of an upstream early gene promoter of bovine papilloma virus-1 by a product of the viral E2 gene" The EMBO Journal 6(1):145-152.										
<b>AM</b>	AG	Spalholz, B.A. <i>et al.</i> (1987) "Bovine Papillomavirus Transcriptional Regulation: Localization of the E2-Responsive Elements of the Long Control Region" Journal of Virology 61(7):2128-2137.										
<b>AM</b>	AH	Spalholz, B.A. Y.-C., Yang, P.M. Howley (1985) "Transactivation of a Bovine Papilloma Virus Transcriptional Regulatory Element by the E2 Gene Product" Cell 42:183-191.										
<b>AM</b>	AI	Jones, K.A., P.A. Luciw, N. Duchange (1988) "Structural arrangements of transcription control domains within the 5'-untranslated leader regions of the HIV-1 and HIV-2 promoters" Genes & Development 1101-1114.										
<b>AM</b>	AJ	Wu, F.K., J.A. Garcia, D. Harrish, R.B. Gaynor (1988) "Purification of the human immunodeficiency virus type 1 enhancer and TAR binding proteins EBP-1 and UBP-1" The EMBO Journal 7(7):2117-2129.										
<b>AM</b>	AK	Sodroski, J. <i>et al.</i> (1985) "Location of the Trans-Activating Region on the Genome of Human T-Cell Lymphotropic Virus Type III" Science 229:74-77.										
<b>AM</b>	AL	Arya, S.K. <i>et al.</i> (1985) "Trans-Activator Gene of Human T-Lymphotropic Virus Type III (HTLV-III)" Science 229:69-72.										
EXAMINER <b>Arthur Marshall</b>						DATE CONSIDERED <b>11-8-99</b>						
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AM	AD	0 1 4 7 6 6 5	7/10/85	EPO				
	AE							

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AM	AF	Berg, J.M. (1986) "Potential Metal-Binding Domains in Nucleic Acid Binding Proteins" Science 232:485-487.
AM	AG	Lambert, P.F., B.A. Spalholz, P.M. Howley (1987) "A Transcriptional Repressor Encoded by BPV-1 Shares a Common Carboxy-Terminal Domain with the E2 Transactivator" Cell 50:69-78.
AM	AH	Lenardo, M.J. et al. (1989) "The Involvement of NF- $\kappa$ B in $\beta$ -Interferon Gene Regulation Reveals Its Role as Widely Inducible Mediator of Signal Transduction" Cell 57:287-294.
AM	AI	Hiscott, J. et al. (1989) "Induction of Human Interferon Gene Expression is Associated with Nuclear Factor that Interacts with the NF- $\kappa$ B Site of the Human Immunodeficiency Virus Enhancer" Journal of Virology 63(6):2557-2566.
AM	AJ	Perkins, N.D. et al. (1993) "A cooperative interaction between NF- $\kappa$ B and Sp1 is required for HIV-1 enhancer activation" The EMBO Journal 12(9):3551-3558.
AM	AK	Franzoso, G. et al. (1993) "The oncoprotein Bcl-3 can facilitate NF- $\kappa$ B-mediated transactivation by removing inhibiting p50 homodimers from select $\kappa$ B sites" The EMBO Journal 12(10):3893-3901.
AM	AL	Kim, Y. et al. (1993) "Crystal structure of a yeast TBP/TATA-box complex" Nature 365:512-521.

EXAMINER

Adam Marshall

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AM	AF	Kadonaga, J.T. <i>et al.</i> (1987) "Isolation of cDNA Encoding Transcription Factor Sp1 and Functional Analysis of the DNA Binding Domain" Cell 51:1079-1090.					
AM	AG	Courey, A.J., R. Tijan (1988) "Analysis of Sp1 In Vivo Reveals Multiple Transcriptional Domains, Including a Novel Glutamine-Rich Activation Motif" Cell 55:887-898.					
AM	AH	Urban, M.B., R. Schreck, P.A. Baeuerle (1991) "NF-κB contacts DNA by a heterodimer of the p50 and p65 subunit" The EMBO Journal 10(7):1817-1825.					
AM	AI	Kunsch, C., S.M. Ruben, C.A. Rosen (1992) "Selection of Optimal κB/Rel DNA-Binding Motifs: Interaction of Both Subunits of NF-κB with DNA is Required for Transcriptional Activation" Molecular and Cellular Biology 12(10):4412-4421.					
AM	AJ	Ikeda, T., K. Honjo, Y. Hirota, T. Onodera (1993) "Isolation of the chicken NF-κB p65 subunit-encoding cDNA and characterization of its products" Gene 133:237-242.					
AM	AK	Matthews, J.R. <i>et al.</i> (1993) "Rate of cysteine <sub>62</sub> in DNA recognition by the P50 subunit of NF-κB" Nucleic Acids Research 21(8):1727-1734.					
AM	AL	Beg, A.A. <i>et al.</i> (1992) IκB interacts with the nuclear localization sequences of the subunits of NF-κB: a mechanism for cytoplasmic retention" Genes & Development 6:1899-1913.					
EXAMINER <i>Ardi Maslul</i>				DATE CONSIDERED 11-8-99			
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AM	AF	Jones, K.A., J.T. Kadonaga, P.A. Luciw, R. Tijan (1986) "Activation of the AIDS Retrovirus Promoter by the Cellular Transcription Factor, Sp1" Science 232:755-759.					
AM	AG	Mukaida, N., Y. Mahe, K. Matsushima (1990) "Cooperative Interaction of Nuclear Factor- $\kappa$ B and <i>cis</i> -Regulatory Enhancer Binding Protein-like Factor Binding Elements in Activating the Interleukin-8 Gene by Pro-inflammatory Cytokines" The Journal of Biological Chemistry 265(34):21128-21133.					
AM	AH	McBride, A.A., R. Schlegel, P.M. Howley (1988) "The carboxy-terminal domain shared by the bovine papillomavirus E2 transactivator and repressor proteins contains a specific DNA binding activity" The EMBO Journal 7(2):533-539.					
AM	AI	Henkel, T. <i>et al.</i> (1992) "Intramolecular Masking of the Nuclear Location Signal and Dimerization Domain in the Precursor for the p50 NF- $\kappa$ B Subunit" Cell 68:1121-1133.					
AM	AJ	Matsusaka, T. <i>et al.</i> (1993) "Transcription factors NF-IL6 and NF- $\kappa$ B synergistically activate transcription of the inflammatory cytokines, interleukin 6 and interleukin 8" Proc. Natl. Acad. Sci. USA 90:10193-10197.					
AM	AK	Margolis, D.M., A.B. Rabson, S.E. Straus, J.M. Ostrove (1992) "Transactivation of the HIV-1 LTR by HSV-1 Immediate-Early Gens' Virology 186:788-791.					
AM	AL	Grimm, S., P.A. Baeuerle (1993) "The inducible transcription factor NF- $\kappa$ B: structure-function relationship of its protein subunits" Biochem. J.					
EXAMINER <i>Arden Mansley</i>				DATE CONSIDERED 11-8-99			
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<b>AM</b>	AF	American Society of Clinical Pathologists (1989) "The Abbott IMx" Laboratory Medicine 20(1):47-49.					
<b>AM</b>	AG	Harrison, S.C., A.K. Aggarwal (1990) "DNA Recognition by Proteins with the Helix-Turn-Helix Motif" Annu. Rev. Biochem. 59:933-969.					
<b>AM</b>	AH	Anderson, W.F., D.H. Ohlendorf, Y. Takeda, B.W. Matthews (1981) "Structure of the cro repressor from bacteriophage $\lambda$ and its interaction with DNA" Nature 290:754-758.					
<b>AM</b>	AI	Baker, C.C., P.M. Howley (1987) "Differential promoter utilization by the bovine papillomavirus in transformed cells and productively infected wart tissues" The EMBO Journal 6(4):1027-1035.					
<b>AM</b>	AJ	Baker, C.C. <i>et al.</i> (1987) "Structural and Transcriptional Analysis of Human Papillomavirus Type 16 Sequences in Cervical Carcinoma Cell Lines" Journal of Virology 61(4):962-971.					
<b>AM</b>	AK	Phelps, W.C., P.M. Howley (1987) "Transcriptional <i>trans</i> -Activation by the Human Papillomavirus Type 16 E2 Gene Product" Journal of Virology 61(5):1630-1638.					
<b>AM</b>	AL	Schwarz, E. <i>et al.</i> (1985) "Structure and transcription of human papillomavirus sequences in cervical carcinoma cells" Nature 314:111-114.					
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<b>AM</b>	AF	Yee, C. <i>et al.</i> (1985) "Presence and Expression of Human Papillomavirus Sequences in Human Cervical Carcinoma Cell Lines" Am. J. Pathol. 119:361-366.					
<b>AM</b>	AG	McBride, A.A., H. Romanczuk, P.M. Howley (1991) "The Papillomavirus E2 Regulatory Proteins" The Journal of Biological Chemistry 266(28):18411-18414.					
<b>AM</b>	AH	Kerr, L.D. <i>et al.</i> (1993) "Association between protp-oncoprotein Rel and TATA-binding protein mediates transcriptional activation by NF- $\kappa$ B" Nature 365:412-419.					
<b>AM</b>	AI	Kim, J.L., D.B. Nikolov, S.K. Burley (1993) "Co-crystal structure of TBP recognizing the minor groove of a TATA element" Nature 365:520-527.					
<b>AM</b>	AJ	Kim, Y., J.H. Geiger, S. Hahn, P.B. Sigler (1993) "Crystal structure of a yeast TBP/TATA-box complex" Nature 365:512-517.					
<b>AM</b>	AK	Northrop, J.P. <i>et al.</i> (1994) "NF-AT components define a family of transcription factors targeted in T-cell activation" Nature 369:497-502.					
<b>AM</b>	AL	Kadonaga, J.T., K.R. Carner, F.R. Masiarz, R. Tjian (1987) "Isolation of cDNA Encoding Transcription Factor Sp1 and Functional Analysis of the DNA Binding Domain" Cell 51:1079-1090.					
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<b>AM</b>	AG	Gill, G., E. Pascal, Z.H. Tseng, R. Tjian (1994) "A glutamine-rich hydrophobic patch in transcription factor Sp1 contacts the dTAF <sub>II</sub> 110 component of the <i>Drosophila</i> TFIID complex and mediates transcriptional activation" Proc. Natl. Acad. Sci. USA 91:192-196.					
<b>AM</b>	AH	Ptashne, M. (1989) "How Gene Activators Work" Scientific American, January 40-47.					
<b>AM</b>	AI	Hochschild, A., M. Ptashne (1986) "Cooperative Binding of $\lambda$ Repressors to Sites Separated by Integral Turns of the DNA Helix" Cell 44:681-687.					
<b>AM</b>	AJ	Antoni, B.A. <i>et al.</i> (1994) "NF- $\kappa$ B-Dependent and -Independent pathways of HIV Activation in a Chronically Infected T Cell Line" Virology 202:684-694.					
<b>AM</b>	AK	Musso, T. <i>et al.</i> (1994) "LPS-inducible nuclear factor in human monocytes that binds the negative regulatory element of the HIV LTR" Journal of Leukocyte Biology 56:21-26.					
<b>AM</b>	AL	Koken, S.E.C. <i>et al.</i> (1992) "Natural Variants of the HIV-1 Long Terminal Repeat: Analysis of Promoters with Duplicated DNA Regulatory Motifs" Virology 191:968-972.					
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AD						
	AE						
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
<b>AM</b>	AF	Harrich, D. J. Garcia, R. Mitsuyasu, R. Gaynor (1990) "TAR independent activation of the human immunodeficiency virus in phorbol ester stimulated T lymphocytes" The EMBO Journal 9:4417-4423.					
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EXAMINER <b>Andin Maschelet</b>				DATE CONSIDERED <b>11-8-99</b>			
<p><small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small></p>							

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<b>AM</b>	AF	Hegde, R.S., S.R. Grossman, L.A. Laimins, P.B. Sigler (1992) "Crystal structure at 1.7A of the bovine papillomavirus-1 E2 DNA-binding domain bound to its DNA target" Nature 359:505-512.					
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